

SE2338 ADA / Heelproof & ADA Polypropylene Grate 1/2 Meter Sections (Black) Heavy Duty

DRAINAGE PLAN:

LEGAL DESCRIPTION: TRACT 24, LADERA BUSINESS PARK UNIT 1

SITE AREA: 2.72 ACRES

FLOOD HAZARD STATEMENT: F.E.M.A. FLOODWAY BOUNDARY AND FLOODWAY MAP DATED NOVEMBER 14, 2016 (PANEL NO. 35001C0326J) INDICATES A FLOOD HAZARD ZONE X WHICH IS AN AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

EXISTING DRAINAGE CONDITIONS:

THE DRAINAGE ANALYSIS FOR THIS SITE IS IN ACCORDANCE WITH CHAPTER 6, ARTICLE 6-2, SECTION 6-2(A), ENTITLED "PROCEDURE FOR 40-ACRE AND SMALLER BASINS." THE DESIGN STORM USED FOR BOTH UNDEVELOPED AND DEVELOPED CONDITIONS IS THE 100-YEAR, 6-HOUR STORM EVENT FOR RUNOFF. THE SITE IS LOCATED IN ZONE 1 SO THE 100-YEAR, 6-HOUR STORM EVENT IS 2.17 INCHES. UNDER EXISTING CONDITIONS, THE PROPERTY IS PARTIALLY DEVELOPED WITH SOME PAVING AND BASE COURSE.

THE PROPERTY IS LOCATED ON LA MORADA EAST OF UNSER BLVD. THE TRACT IS CURRENTLY VACANT. THE SITE GENERALLY DRAINS FROM NORTHWEST TO SOUTHEAST TO LA MORADA PLACE. THERE IS A STORM DRAIN AND TORM INLETS IN LA MORADA DRIVE. THIS PROPERTY IS LOCATED IN ZONE 2. THE PEAK RUNOFF UNDER EXISTING CONDITIONS IS 4.19 CFS DURING A 100-YEAR, 6-HOUR STORM.

DEVELOPED DRAINAGE CONDITIONS:

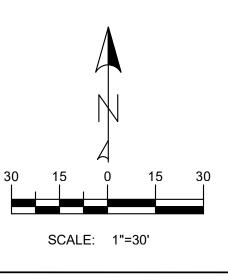
THIS PROPERTY WILL BE DEVELOPED INTO AN OFFICE AND LIGHT INDUSTRIAL PARK. THIS TRACT IS PART OF THE LADERA BUSINESS PARK MASTER DRAINAGE PLAN. RUNOFF FROM THIS TRACT DRAINS TO LA MORADA PLACE. THE RUNOFF THAT REACHES LA MORADA IS COLLECTED IN A STORM DRAIN SYSTEM AND EVENTUALLY DISCHARGES TO THE MIREHAVEN CHANNEL. ACCORDING TO THE LADERA BUSINESS PARK MASTER DRAINAGE PLAN, THE TRACT IS ALLOWED A PEAK DISCHARGE OF 12 CFS. THE PEAK DISCHARGE FROM THE SITE UNDER DEVELOPED CONDITIONS DURING A 100-YEAR, 6-HOUR STORM IS 9.97 CFS, WHICH IS LESS THAN THE 12 CFS ALLOWED. RUNOFF FROM THE SITE WILL ENTER LA MORADA THROUGH THE EASTERN DRIVEASY AND THROUGH A SIDEWALK CULVERT. TWO FIRST FLUSH PONDS ARE LOCATED ON SITE WITH A TOTAL VOLUME OF 2,665 CUBIC-FEET. ONE OF THE FIRST FLUSH PONDS WILL DISCHARGE TO LA MORADA THROUGH A 24-INCH SIDEWALK CULVERT.

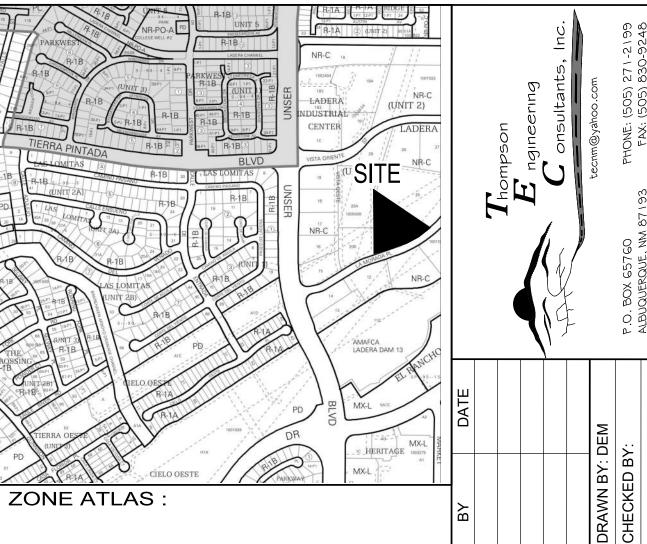
FIRST FLUSH VOLUME = $(0.42IN/12IN/FT) \times ((2.72 \times .717)) \times 43,560SF/AC) = 2,973 CF REQUIRED.$

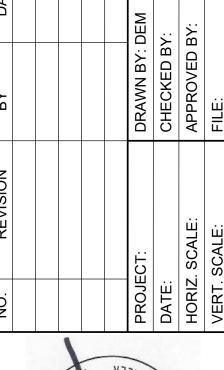
100-YEAR HYDROLOGIC CALCULATIONS

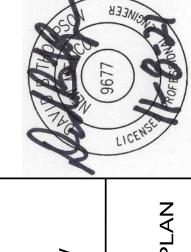
		LAND TREATMENT				WEIGHTED	100-YEAR PRECIPITATION				
BASIN	AREA	Α	В	С	D	E	V (6-hr)	V (6-hr)	V(24-hr)	V(24-hr)	Q
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)
				E	KISTING	CONDITIONS	S				
SITE	2.7200	100.00	0.00	0.00	0.00	0.55	0.12	5,430	0.12	5,430	4.19
TOTAL RUNOFF	2.7200						0.12	5,430	0.12	5,430	4.19
				FULL DI	EVELOP	MENT COND	ITIONS				
SITE	2.7200	0.00	14.10	14.20	71.70	1.84	0.42	18,206	0.47	20,471	9.97
TOTAL RUNOFF	2.7200						0.42	18,206	0.47	20,471	9.97
EXCESS PRECIP.		0.55	0.73	0.95	2.24	Ei (in)					
PEAK DISCHARGE		1.54	2.16	2.87	4.12	Q _{Pi} (cfs)					
							'		ZONE =	1	
WEIGHTED E (in) = $(E_A)(\%A) + (E_B)(\%B) + (E_C)(\%C) + (E_D)(\%D)$					P _{6-HR} (in.) = 2.17						
V _{6-HR} (acre-ft) = (WEIGHTED E)(AREA)/12						P_{24-HR} (in.) = 2.49					
V_{10DAY} (acre-ft) = V_{6-HR} + (AD)(P_{10DAY} - P_{6-HR})/12					P_{10DAY} (in.) = 3.90						

		LEGEND	
+5183.90	EXISTING SPOT ELEVATION	Ø	PROPOSED 2' WIDE CURB CUT
5185	EXISTING MAJOR CONTOUR		PROPOSED 2' WIDE SIDE WALK CULVERT PER COA STD DWG 2236
5184	EXISTING MINOR CONTOUR	~~~~~	PROPOSED WATER BLOCK
=====	EXISTING CURB AND GUTTER		PROPOSED RETAINING WALL
86.65 ●	PROPOSED SPOT ELEVATION		PROPOSED PONDING
—	PROPOSED FLOW DIRECTION	K035/K02/02/102	

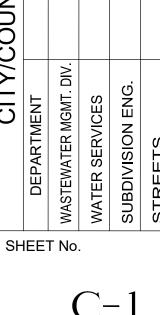




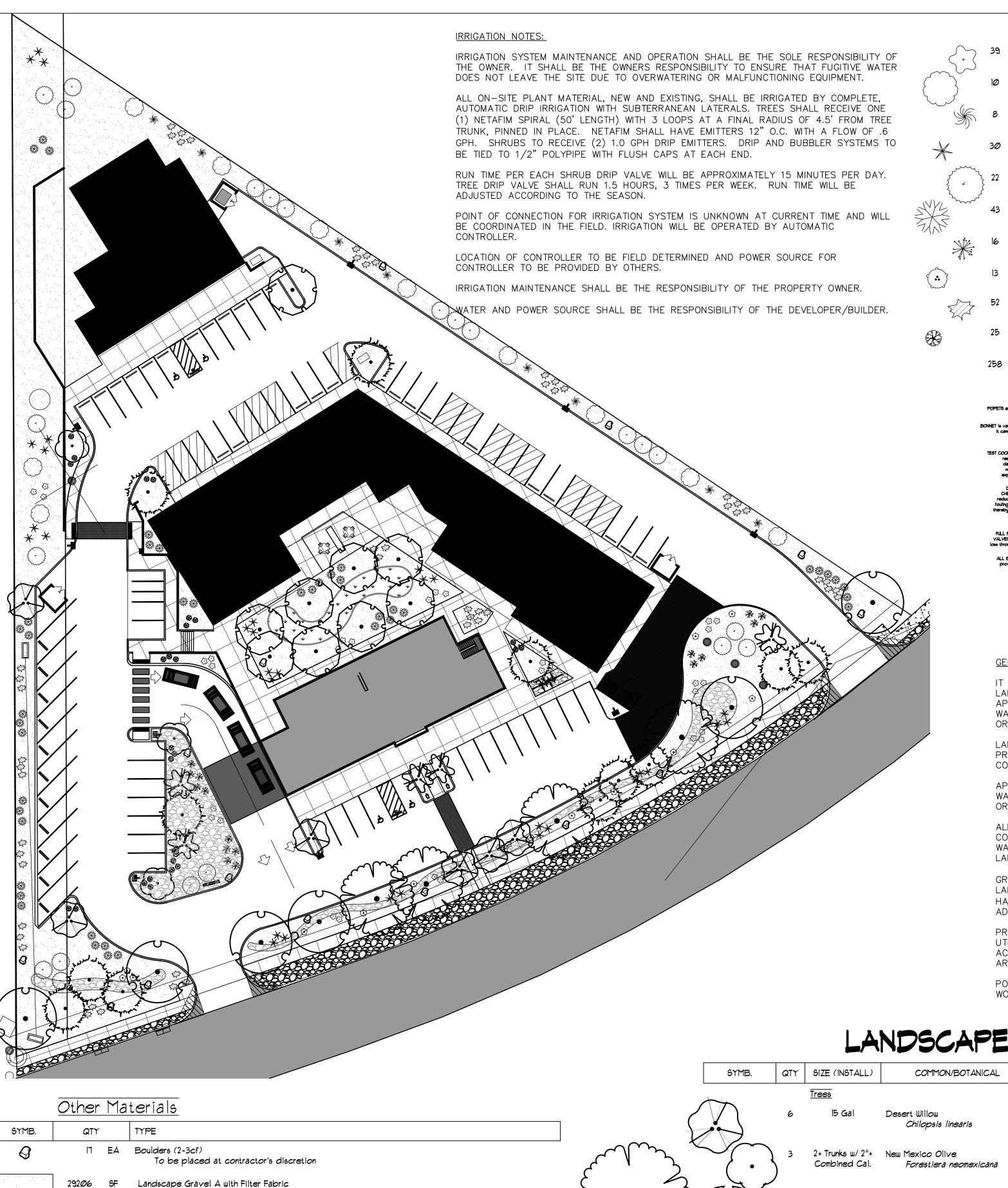




	CACTUS PATCH PLAZA	7801 LA MORADA PL. NW		אולאין אסלאוולאט טאול סאווטאולאס	
	DATE				
INTY REVIEW	SIGN-OFF				



C-1



 $\frac{3}{4}$ " Brown Gravel

Extended Patio

Putting Green

4' Round Benches

967 SF Synthetic Turf on Concrete

160 LF Landscape Curb

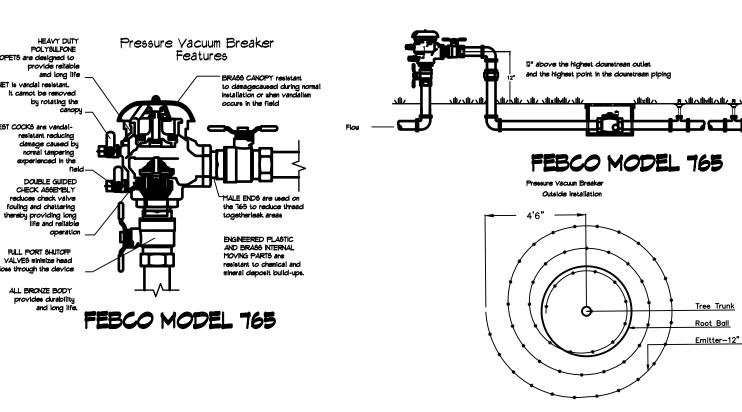
2 EA Site Furnishings

536 SF Concrete

3964 SF Oversize Landscape Gravel / No Filter Fabric

2-4" Angular Cobble/RipRap





GENERAL NOTES

IT IS THE INTENT OF THIS PLAN TO COMPLY WITH APPLICABLE CITY WATER CONSERVATION LANDSCAPING AND WATER WASTE ORDINANCE PLANTING RESTRICTION APPROACH. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE OR IMPLY EXEMPTION FROM WATER WASTE PROVISIONS OF THE WATER CONSERVATION LANDSCAPING AND WATER WASTE

LANDSCAPE MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. THE PROPERTY OWNER SHALL MAINTAIN STREET TREES IN A LIVING, HEALTHY, AND ATTRACTIVE

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE OR IMPLY EXEMPTION FROM WATER WASTE PROVISIONS OF THE WATER CONSERVATION LANDSCAPING AND WATER WASTE ORDINANCE. WATER MANAGEMENT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.

ALL LANDSCAPING WILL BE IN CONFORMANCE WITH THE CITY OF ALBUQUERQUE ZONING CODES, LAND-USE ORDINANCES, AND WATER CONSERVATION LANDSCAPING AND WATER WASTE ORDINANCE. IN GENERAL, WATER CONSERVATIVE, ENVIRONMENTALLY SOUND LANDSCAPE PRINCIPLES WILL BE FOLLOWED IN DESIGN AND INSTALLATION.

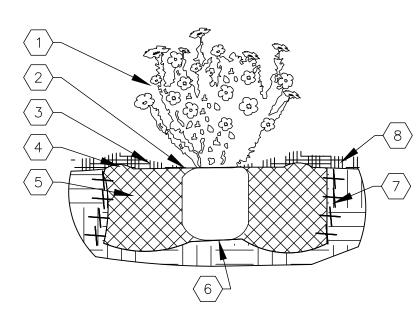
GRAY GRAVEL OVER FILTER FABRIC TO A MINIMUM DEPTH OF 3" SHALL BE PLACED IN ALL LANDSCAPE AREAS WHICH ARE NOT DESIGNATED TO RECEIVE NATIVE SEED OR OTHER HATCHED GROUNDCOVER AREA. ALL GRAVEL SHALL BE PLACED .5"-1" LOWER THAN ADJACENT HARD SURFACES.

PRIOR TO CONSTRUCTION, LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITY LINES. IN CASE OF A DISCREPANCY BETWEEN UTILITIES INDICATED ON PLAN AND ACTUAL FIELD VERIFICATION, CONTRACTOR SHALL CEASE WORK AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY FOR DIRECTIONS ON HOW TO PROCEED.

POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES IS TO REMAIN AFTER ALL LANDSCAPE WORK IS COMPLETED.

LANDSCAPE LEGEND

	•					
SIZE (INSTALL)	COMMON/BOTANICAL	MATURE HXW	WATER USE	COVER (EA.)	TOTAL	<u>LANDSCAPE CALCULATIONS</u> ZONING:
Trees						APPLICABLE REGULATION(S)
15 Gal	Desert Willow	2Ø' x 25'	L	625	3 75 Ø	
	Chilopsis linearis					TOTAL LOT AREA (ACRES)
						TOTAL LOT AREA (SF)
2+ Trunks w/2"+ Combined Cal	New Mexico Olive Forestiera neomexicana	15' x 15'	М	225	675	BUILDING AREA (SF)
	Forestiera neomexicana					NET LOT AREA (SF)
2"+ Cal	Honey Locust	50' x 45'	M+	2Ø25	81 <i>00</i>	
	Gleditsia triacanthos inermis					REQUIRED LANDSCAPE (%)
2"+ Cal	Texas Red Oak	40' × 40'	М	1600	11200	REQUIRED LANDSCAPE (SF)
	Quercus buckleyi					LANDSCAPE PROVIDED (SF)
6'+ Height	Austrian Pine	35' x 25'	M+	625	7500	
_	Pinus nigra					VEGETATIVE COVER (% - REQ)
2"+ Cal	Chinese Pistache	40' × 30'	М	3 <i>00</i>	81ØØ	VEGETATIVE COVER (SF - REQ)
	Pistachia chinensis					VEGETATIVE COVER (SF - PROV.)
15 Gal	Chaste Tree	20' × 20'	М	400	2000	
	Vitex agnus-castus					REQ. TREES - 1ST AND 2ND STORY UNITS
						PROVIDED UNIT TREES
			Total	Tree Coverage:	41325	

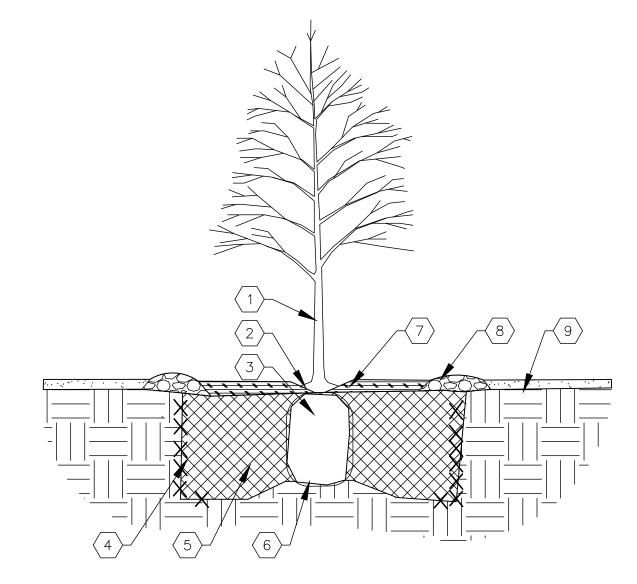


SHRUB PLANTING KEYED NOTES

- SHRUB LOCATION, SPECIES, AND CONDITION AS PER PLAN. INSTALL WITH TOP OF ROOT BALL FLUSH WITH SUBGRADE (BOTTOM OF MULCH)
- USE WOOD CHIP MULCH OVER ROOTBALL, FEATHERED TO A 2" DEPTH AND HELD BACK 2" FROM TRUNKS AND STEMS AND TO COVER DRIPLINE. 4. 2" $HIGH \times 8$ " WIDE BERM
- 5. BACKFILL PER SPECIFICATIONS. LIGHTLY TAMP IN LIFTS AND WATER-IN TO ELIMINATE VOIDS AND AIR POCKETS. UNDISTURBED NATIVE SOIL.
- SCARIFY AND LOOSEN EDGES OF PLANTING PIT.
- 8. MULCH SEE PLANTING PLAN. 3" DEPTH UNLESS OTHERWISE NOTED.



SHRUB PLANTING DETAIL



TREE PLANTING KEYED NOTES

- TREE LOCATION, SPECIES, AND CONDITION AS PER PLAN. REMOVING EXISTING SOIL (FROM NURSERY) AS NEEDED TO EXPOSE ROOT FLARE. INSTALL
- WITH ROOT FLARE FLUSH WITH SUBGRADE (BOTTOM OF MULCH) 3. INSTALL TREE PLUMB. REMOVE WIRE BASKET, WOOD BOX, PLASTIC, TWINE, AND/OR ROPE PRIOR TO BACKFILL. REMOVE BURLAP EXCEPT FROM BOTTOM OF ROOT BALL.
- 4. SCARIFY AND LOOSEN EDGES OF PLANTING PIT. 5. BACKFILL PER SPECIFICATIONS. LIGHTLY TAMP IN LIFTS AND WATER-IN TO ELIMINATE VOIDS
- AND AIR POCKETS. 6. UNDISTURBED NATIVE SOIL UNDER ROOTBALL TO PREVENT SETTLING.
- 7. INSTALL WOOD CHIP ORGANIC MULCH OVER ROOTBALL AND TO COVER DRIP LINE.
- GENERALLY, MULCH SHOULD BE HELD 4" BACK FROM TREE TRUNK 8. 4" HIGH \times 16" WIDE COBBLE BERM AT DRIP LINE.

TREE PLANTING

9. MULCH - SEE PLANTING PLAN

TREE PLANTING DETAIL

SCALE: 1" = 30'-0"

PD: PLANNED DEVELOPMENT

2.70

117612

26725

90,887

13633

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75*.*Ø 10225

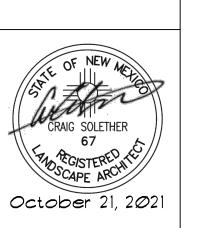
48764

IDO 14-16-5-6 AND PART 6-6-2 OF ROA 1994

GROUNDCOVER (% - REQ)	25 <i>.00</i>
GROUNDCOVER (SF - REQ)	3408
GROUNDCOYER (SF - PROV.)	7439
PARKING LOT AREA (SF)	10195
REQ. PARKING LANDSCAPE 10% (SF)	1020
PROV. PARKING LANDSCAPE (SF)	5268
REQ. PARKING TREES (1/10 SPOTS)	8
PROV. PARKING TREES	14
PROVIDED DECIDUOUS TREES	10
COOL SEASON GRASS (SF)	Ø
COOL SEASON GRASS (% OF LANDSCAPE)	0.0
REQ. STREET TREES	2 <i>0.0</i>
PROVIDED UNIT TREES	21.00
PROVIDED DECIDUOUS TREES	13 <i>.</i> Ø

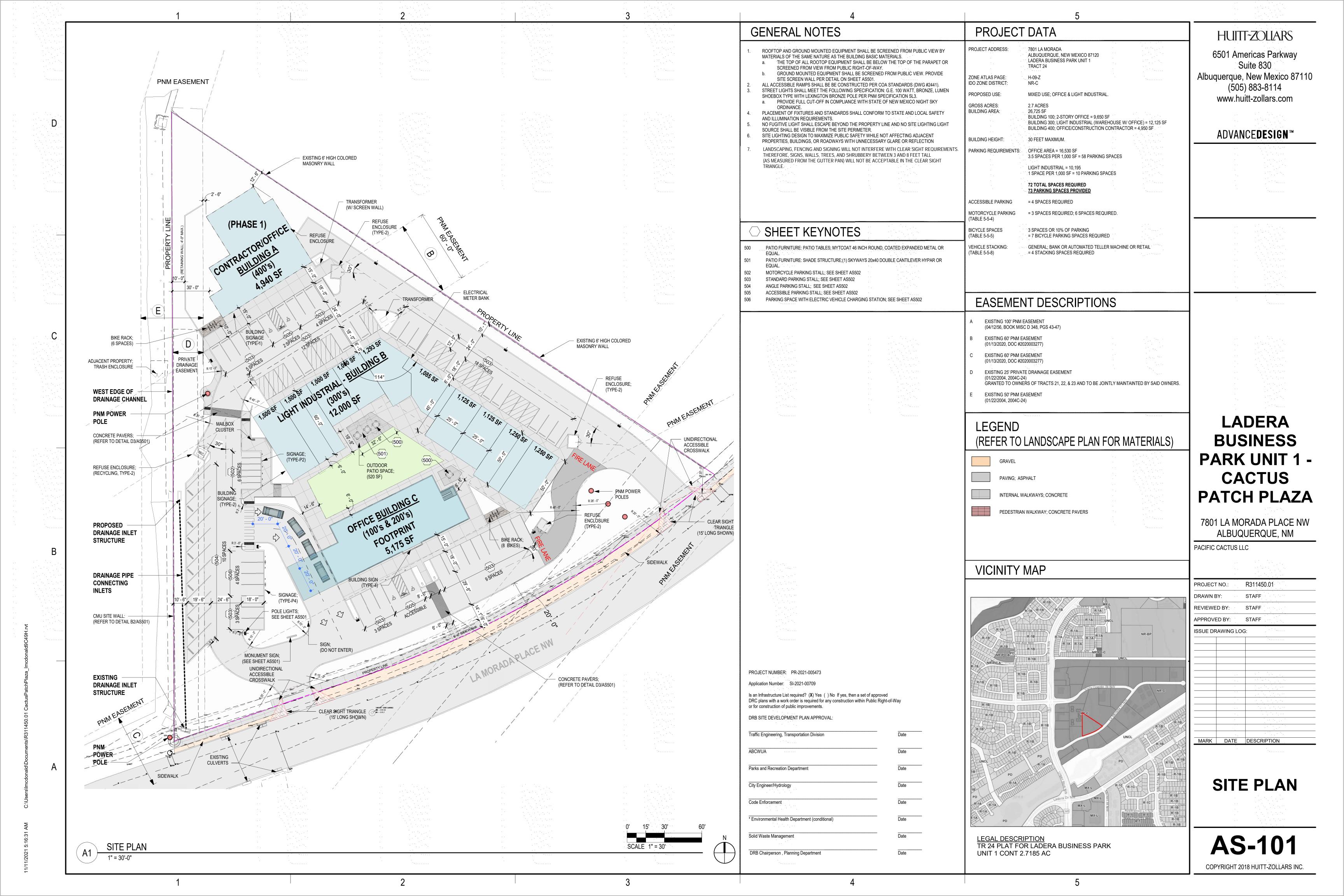


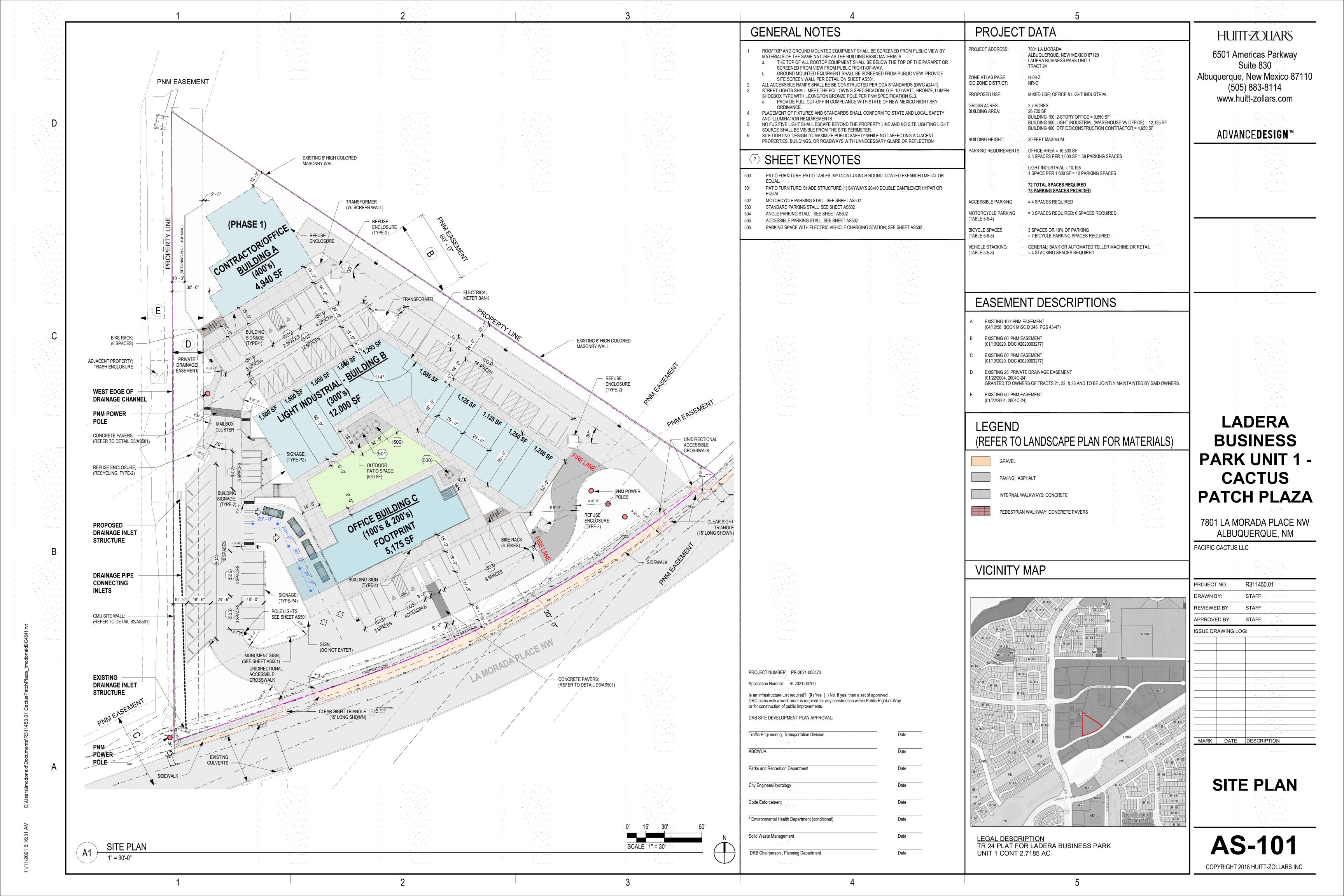
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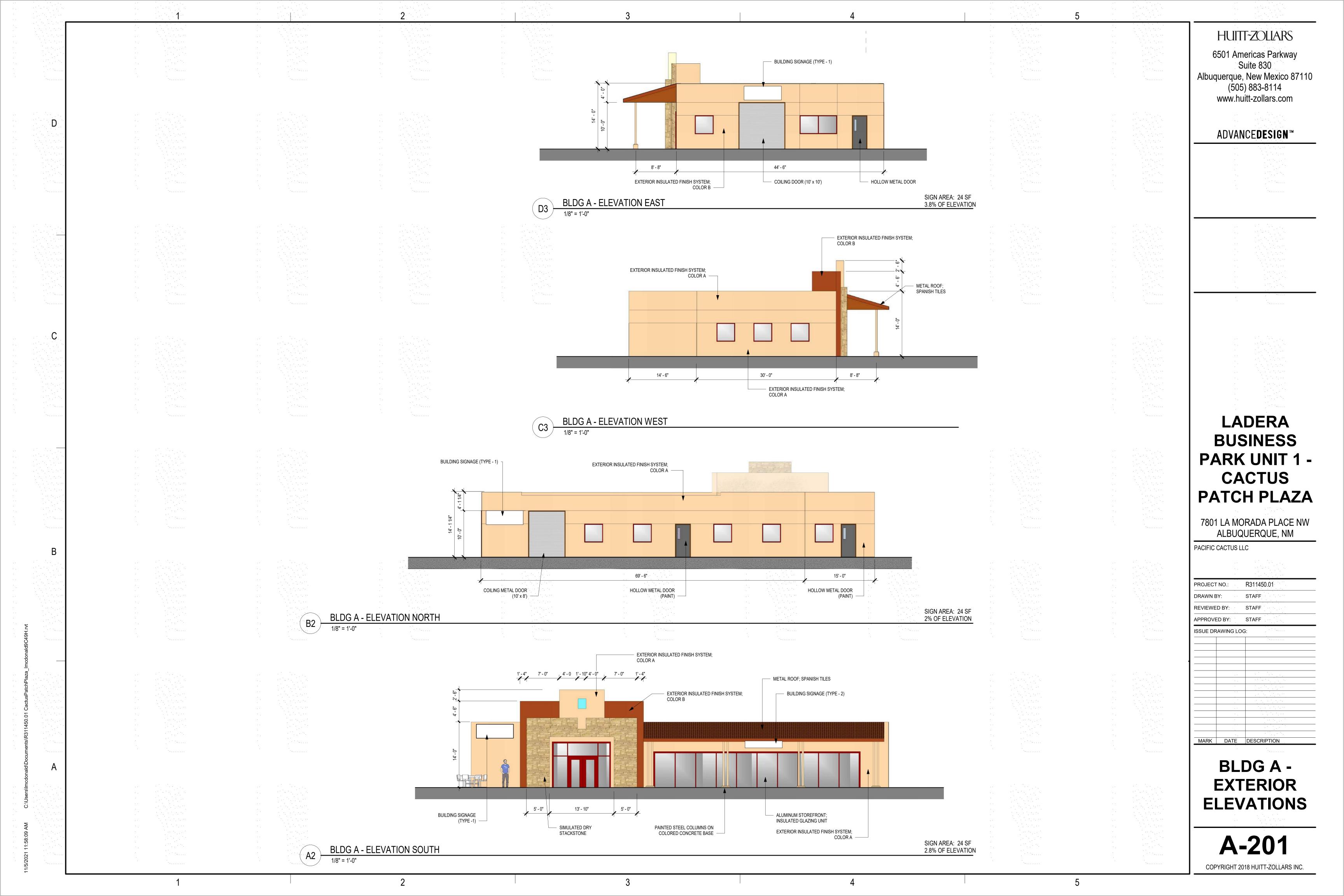


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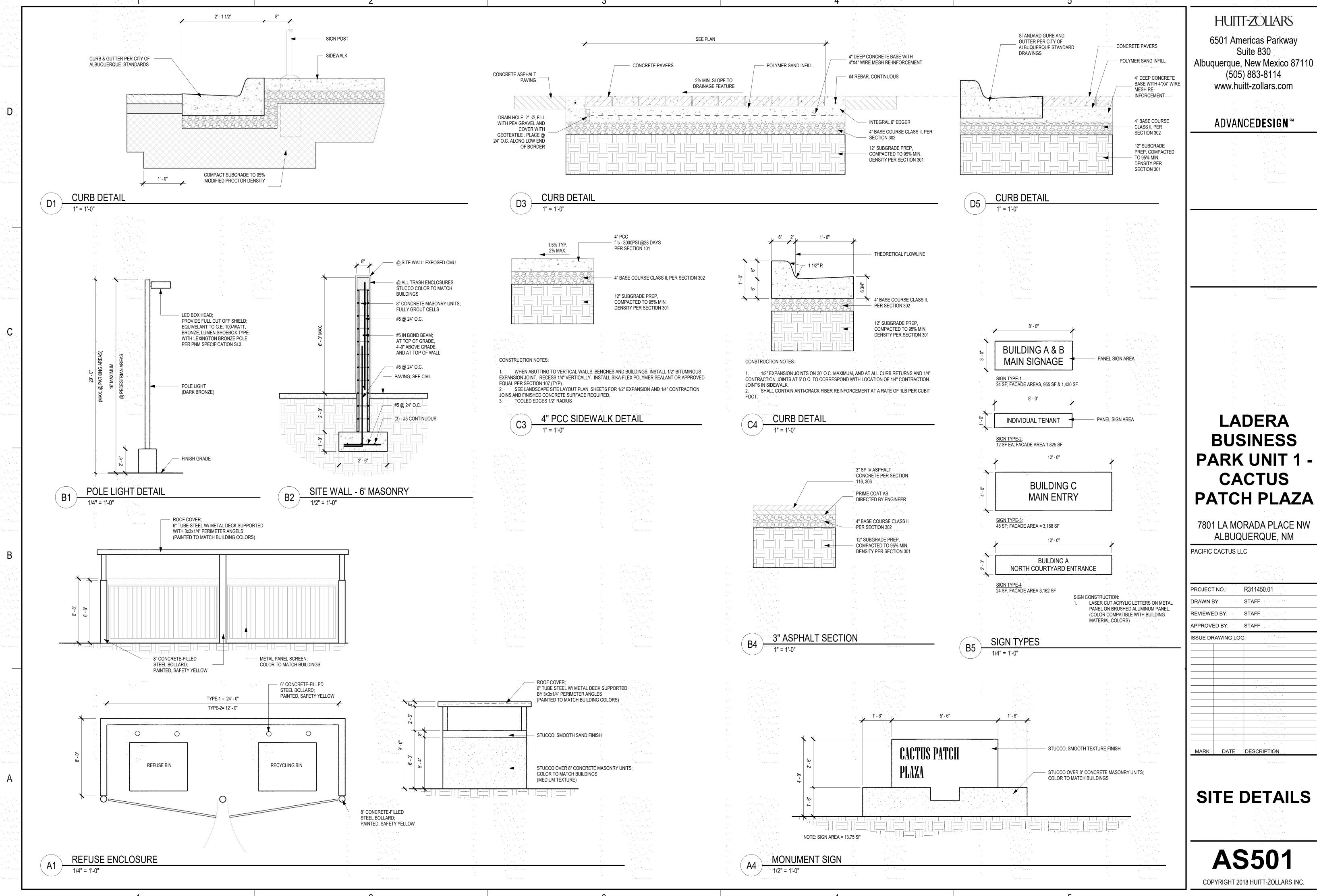


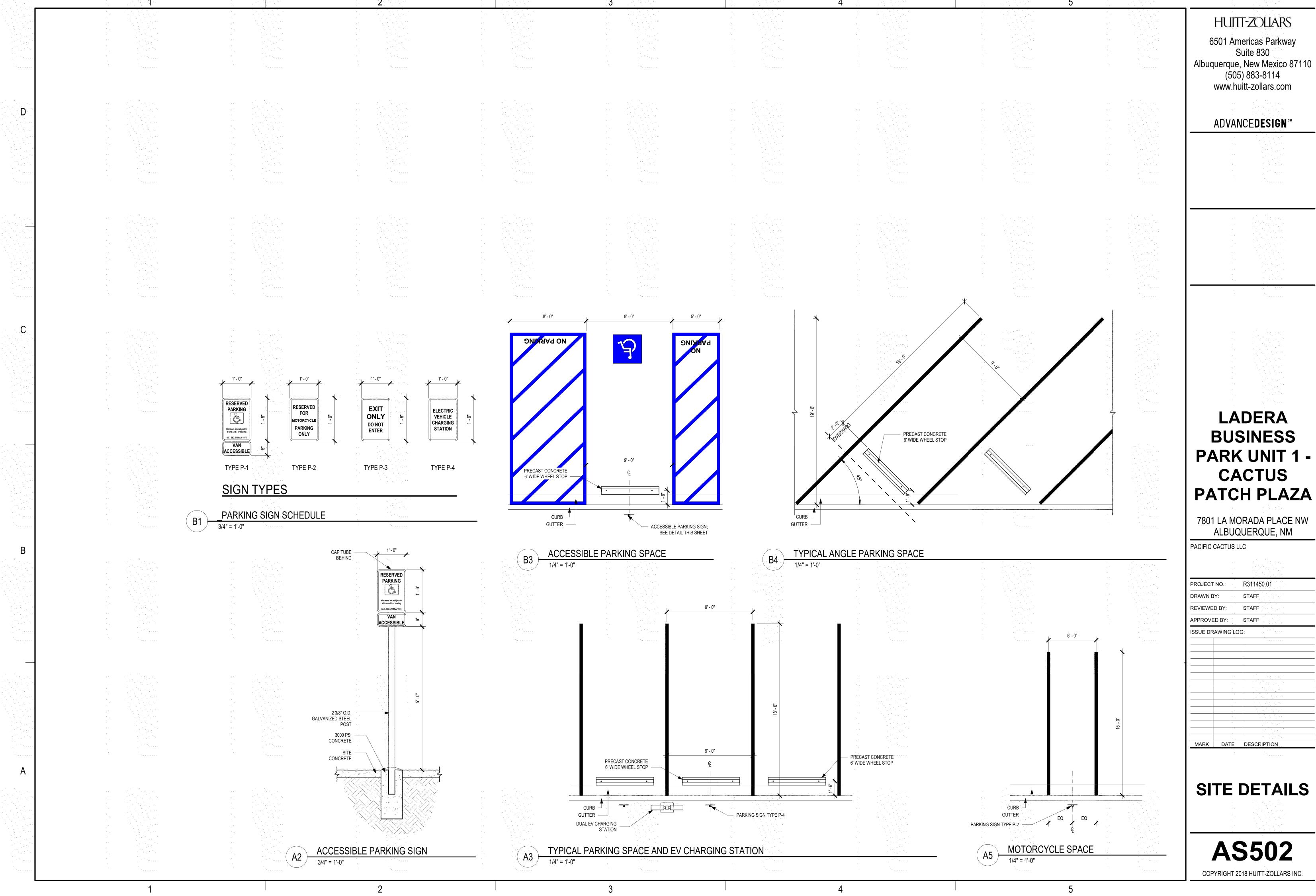














November 12, 2021

Project No.: PR-2021-005473
Application No.: SI-2021-00709

RE: Responses to June 09, 2021 DRB Comments

ENGINEERING COMMENTS:

1. Provide approved Fire-1 plan.

Provided

2. Call out paved surfaces on the plan, and call out curb to be 6"-8" high. Provide curb detail. Call out all curb radii, following DPM standards.

Provided

- 3. Show motorcycle parking and bicycle parking with a keyed note. Provide details for motorcycle signage and a bike rack per IDO requirements. Show all dimensions required to demonstrate sufficient space for the bicycle parking. Call out "MC" at the back of any motorcycle parking spaces.

 Provided
- 4. A 6-foot ADA pathway is required from the handicapped spaces to all offices and from all offices to the right-of-way. Show these paths with sidewalk, handicapped ramps, doorways, etc. Provide sidewalk details, crosswalk details, and ramp details as needed. Maximum sidewalk cross-slope is 2%. Also show all sidewalk dimensioning for other pathways,

Provided.

Complete sidewalk details will be submitted with permit documents.

- 5. Provide parking space dimensioning for all parking lot segments including the typical parking spaces, any van accessible aisles and handicapped spaces and motorcycle spaces.

 Provided
- 6. Specify angle for angular parking and meet dimensioning requirements per the DPM. Provided
- 7. Use a keyed note to call out parking bumpers (typical) and specify dimension from the buildings to industrial building to avoid damage to building.
- 6' walkway provided between parking and industrial building. Parking bumpers will be placed in locations without coiling doors.
- 8. Provide handicapped sign details and list "No Parking" at the back of any accessible aisles as well as any other areas where parking is not desired between parking spaces. The ADA accessible parking sign must have the required language per 66-7-352.4C NMSA 1978 "Violators Are Subject to a Fine and/or Towing."

Provided



9. Specify purpose of car queuing shown on west side of office building, and is this queuing adequate? Wayfinding signage should be included.

Car queing is shown because there is a possibility the tenant may be a small bank branch with a teller window and/or ATM.

10. For any one-way drive aisles provide one-way signage and "Do Not Enter" signage. Use keyed note to call out any painted arrows.

Required roadway signage will be submitted with permit plans.

11. Include standard note for the clear sight triangle. "Landscaping, fencing and signing will not interfere with clear sight requirements. Therefore, signs, walls, trees, and shrubbery between 3 and 8 feet tall (as measured from the gutter pan) will not be acceptable in the clear sight triangle." Use DPM standards for intersection clear sight distance due to curve in the road.

Provided

12. Include sidewalk across site frontage on the infrastructure list. Place sidewalk up against property line, leaving landscape buffer between the curb and sidewalk. Include ramp call-outs per COA standard detail. Reference COA standard details for the driveways.

Provided

DEVELOPMENT REVIEW BOARD - HYDROLOGY SECTION

ENGINEERING COMMENTS:

- Hydrology needs an approved Conceptual Grading & Drainage Plan. Grading plan was submitted on 11/10/2021.
- Comment Lot will need Hydrology to approved Grading and Drainage Plan prior to Building Permit if one of these conditions is met. (500 cy of grading, 1,000 sf of proposed building, or 10,000 sf of proposed paving).

 Concur.

ABCWUA Comment:

Please provide written description of how the following comments were addressed with the next submittal.

a. An Availability statement has been requested and is currently on hold pending submittal of a fire one plan.

Availability statement attached.



b. Existing infrastructure:

- i. There is an existing 8 inch PVC water main in La Morada Place.
- ii. There is an existing 8 inch PVC sanitary sewer main in La Morada Place.
- iii. The existing frontages are covered by these public water and public sewer improvements.

c. Utility Plan:

- i. Provide a utility plan depicting water and sewer service to the site.
- ii. Include whether the separate buildings are to include separate meters.

Each building will be metered separately.

iii. Is there an anticipated user for the light industrial building.

There are no anticipated users for any of the buildings at this point in time.

Parks and Recreation Department

06-09-2021

It does not appear a plant or material palette/schedule was provided as part of a Landscape Plan per IDO Section 5-6(C)(1).

Landscape plan will be submitted.

Planning Dept. - Major Case Comment

Because the site is vacant and ungraded, a Sensitive Lands Analysis per 5-2(C)(1) of the IDO must be performed with an analysis of site constraints related to sensitive lands. New subdivisions of land and site design shall avoid locating development, except for open spaces and areas that will not be disturbed during the development process, in the following types of sensitive lands:

5-2(C)(1)(a) Arroyos.

- 5-2(C)(1)(b) Floodplains and Special Flood Hazard Areas.
- 5-2(C)(1)(c) Irrigation facilities (acequias).
- 5-2(C)(1)(d) Large stands of mature trees.
- 5-2(C)(1)(e) Rock outcroppings.
- 5-2(C)(1)(f) Significant archaeological sites.
- 5-2(C)(1)(g) Steep slopes and escarpments.
- 5-2(C)(1)(h) Wetlands.
- An Infrastructure List is included with this submittal. A recorded IIA must be submitted prior to final sign-off from Planning.

An infrastructure list is not required for the driveway access from La Morada to the site.

• The Infrastructure List needs to be signed and dated prior to distribution to the DRB members for their e-signatures.

n/a





• There are three phases to the Site Plan. Note how the exterior improvements are being constructed per each phase, including vehicular, accessible, motorcycle, and bicycle parking. Note and ensure that the parking requirements are being met per each phase.

Phasing description has been added to the Phasing plan sheet.

Phase 01 will include all the perimeter drives, parking, and landscaping.

Phase 02 will fill in the center landscaping.

Phase 03 will complete the southern portion of the site connecting the perimeter drives.

• The applicant must detail on the Site Plan and/or comment response letter how the proposed development is meeting all the requirements of the Ladera Business Park Master Plan, including any requirements not addressed in this comment memo and other DRB/outside entity comment memos. Any requirements the Ladera Business Park Master Plan doesn't address the IDO has jurisdiction over, and must be met.

We have met with Ladera Business Park Architectural Review Committee to review the development and have submitted a package for their review/comment/approval.

- Provide proof of approval for the project from the Ladera Business Park Architectural Committee. Development has been submitted and comments are pending completion of their review.
- See the attached standards for Drainage Basin Treatments. Concur.

End

